SIEMENS

Product type designation	CP 1543SP-1

Communications processor CP 1543SP-1 for connection of an SIMATIC S7-ET 200SP to Industrial Ethernet; Security (firewall and VPN) Open IE communication (TCP/IP, ISO-on-TCP, UDP) PG/OP, S7 routing, IP broadcast/multicast, SNMPV1/V3, DHCP, secure email, IPV4/IPV6, support of SINEMA Remote Connect with autoconfiguration, time-of-day synchronization via NTP, access to web server of CPU, bus adapter required

Transfer rate

Transfer rate	
• at the 1st interface	10 ... 100 Mbit/s

Interfaces

Number of interfaces / acc. to Industrial Ethernet	1
Number of electrical connections	
• at the 1st interface / acc. to Industrial Ethernet	2
Type of electrical connection	
• at the 1st interface / acc. to Industrial Ethernet	via ET 200SP bus adapter (RJ45, FC, SCRJ), integrated switch

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage	24 V
Supply voltage	19.2 ... 28.8 V
Power loss [W]	6 W

Ambient conditions

Ambient temperature	
• for vertical installation / during operation	-30 ... +50 °C

• for horizontally arranged busbars / during operation	-30 ... +60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Relative humidity	
• at 25 °C / without condensation / during operation / maximum	95 %
Protection class IP	IP20

Design, dimensions and weights

Width	60 mm
Height	117 mm
Depth	74 mm
Net weight	0.18 kg
Mounting type	
• 35 mm DIN rail mounting	Yes

Product features, product functions, product components / general

Number of units	
• per CPU / maximum	2
• Note	2 CPs can be pluged in per CPU, simultaneous operation with BA Send and CM DP is possible

Performance data / open communication

Number of possible connections / for open communication	
• by means of T blocks / maximum	32
Amount of data	
• as user data per ISO on TCP connection / for open communication / by means of T blocks / maximum	65536 byte

Performance data / S7 communication

Number of possible connections / for S7 communication	
• maximum	16
• with OP connections / maximum	16

Performance data / multi-protocol mode

Number of active connections / with multi-protocol mode	32

Performance data / IT functions

Number of possible connections	
• as e-mail client / maximum	1

Product functions / management, configuration, engineering

Product function / MIB support	Yes

Protocol / is supported	
• SNMP v1	Yes
• SNMP v3	Yes
• DCP	Yes
• LLDP	Yes
Configuration software	
• required	STEP 7 Professional V14 (TIA Portal) or higher
Identification & maintenance function	
• I&M0 - device-specific information	Yes
• I&M1 – higher-level designation/location designation	Yes

Product functions / Diagnostics

Product function / Web-based diagnostics	Yes; via ET 200SP CPU

Product functions / Security

Firewall version	stateful inspection
Product function / with VPN connection	IPsec, SINEMA RC
Type of encryption algorithms / with VPN connection	AES-256, AES-192, AES-128, 3DES-168, DES-56
Type of authentication procedure / with VPN connection	Preshared key (PSK), X.509v3 certificates
Type of hashing algorithms / with VPN connection	MD5, SHA-1
Number of possible connections / with VPN connection	4
Product function	
• switch-off of non-required services	Yes
• Blocking of communication via physical ports	Yes
• log file for unauthorized access	Yes

Product functions / time

Product function / SICLOCK support	Yes
Product function / pass on time synchronization	No
Protocol / is supported	
• NTP	Yes
• NTP (secure)	Yes
time synchronization	
• from NTP-server	Yes

Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter

• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

Security information

Security information	Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit http://www.siemens.com/industrialsecurity. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com. (V3.4)
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